



## Advances in Computational Imaging: Challenges and Future Directions

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### Message from the Guest Editors

Dear Colleagues,

This Special Issue encapsulates the forefront of research in computational imaging and converges pivotal areas of computer vision, machine learning, medical image analysis, deep learning, and remote sensing. It aims to spotlight the intersection of these disciplines in overcoming current barriers and shaping the trajectory of future innovations in the field. This collection delves into pressing technical challenges such as big data management, algorithmic efficiency, and the quest for real-time processing capabilities, while also highlighting the transformative applications of computational imaging across healthcare diagnostics, environmental surveillance, and urban planning. Anticipating future developments, this Special Issue is poised to explore algorithmic breakthroughs, cross-disciplinary ventures, and the seamless integration of nascent technologies.

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## Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

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